

## ENVIRONMENTAL AND PRODUCT DATA SHEET

### Product

CPET tray

### Raw Material

Crystalline Polyethylene terephthalate (CPET) made from recycled post-consumer recycled (PCR) PET.

### Packaging

Inner: Polyethylene (PE)

Outer: Corrugated board box

### Field Of Application

The CPET-trays are intended for deliveries of individual portions of ready-cooked meals from large-scale households. Multiple use is not applicable as these products are intended as disposable products for single use.

The articles can be used safely with all types of food under following conditions:

✓	Application	Specific conditions	
		Temperature (°C)	Period food contact
✓	Storage in freezer	-40 – 0	Very long (>> 10 days)
✓	Storage in fridge	0-10	Long (> 10 days) The food itself sets the limitation
✓	Storage at room temperature	Max 40	Long (> 10 days) The food itself sets the limitation
	Keeping warm applications*	-	-
✓	Hotfill & serve temp	< 220	Immediate use
✓	Microwave oven	< 220	Short (< 2 h)
✓	Cooking application	< 220	Short (< 2 h)

\*CPET is not optimal for warm keeping conditions due to the material getting very soft around its glass transition temperature at appr. 70 °C This has to do with the usage aspect and not because of increased migration exceeding legal limits. The tray will not melt or collapse, but notice should be taken to the risk of the tray getting soft and weak.

### Heat resistance

The CPET trays are functional in hot air oven and microwave applications up to 220°C. When using the tray on an oven grid it will result in some minor visual deformations of the bottom of the product.

Due to natural weakness at high temperatures, the heated products must be handled carefully the first minutes after being taken out of an oven or microwave. As temperature decreased the stiffness will be retained.

Heating will cause shrinkage of the material.

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### *Strength impact*

The brittleness of CPET increases at lower temperatures.

The product is designed to withstand normal handling in frozen condition, but special care is required when handling the products in cold conditions.

### *Sealability*

Good sealing can be obtained with different kind of seal films. Due to the variety of seal films and applications the sealability should be tested by the end user for best acceptance.

### **Handling instructions**

All plastic material becomes soft when heated. The CPET trays starts to become soft at temperatures > 70°C. To avoid strong deformation, it is recommended:

- to place the rCPET article on a flat surface or on a rack with small distances (*e.g.* 3 cm) between the bars
- to allow the product to cool before handling, so the tray regains its strength
- not to stack products during and immediately after the heating
- to avoid contact with other articles during heating
- to avoid any kind of pressure/forces on the product during heating
- not to overload the product with fluid food ingredients.

Minimum temperature for the use of CPET is -40°C. As the product becomes brittle at low temperatures, the following recommendations should be followed to avoid damage of the products:

- being frozen, the items have to be handled very careful
- stack the finished products upright in the case and do not over stack the products
- avoid that the products can move and shift in the packaging during transport.

### **Sealing of Tray/Cover**

When sealing the trays through welding, a small amount decomposition product is formed. As always when working with heating and melting materials, an adequate ventilation is very important. In most cases a kitchen fan will be sufficient to evacuate the emissions that may arise.

### **EC Directive 94/62/EC on Packaging and Packaging Waste**

The packaging complies with all essential requirements as defined by 94/62/EC.

For example minimum adequate amount of packaging, limitation of heavy metal content, recyclable through at least one of the following: reuse, material recovery, energy recovery or composting.

### **Product**

The product consists of 100 % PCR (Post-Consumer Recycled) PET.

Recycled PET is a fossil-based plastic that comes from recycled PET bottles. The plastic is treated in a process that makes the recycled plastic approved for food contact use.

Choose RPET to promote a circular economy where materials are used again at high value.

#### Packaging

PE in the packaging is manufactured from fossil sources.

The corrugated board is unbleached and to a large extent made from recycled fibres.

#### **Product Safety**

The products fulfill the following:

- EU Regulation 1935/2004/EC
- EU Regulation 2023/2006/EC (GMP)
- EU Regulation 1616/2022 (recycled plastic)
- EU Regulation 10/2011/EC with amendments  
Migration tests on the article material performed by an independent institute showed that under appropriate test conditions, overall and specific (when relevant) migration falls considerably below the limit given by regulation 10/2011. (For further details, see *Declaration of Compliance*).
- Duni manufacturing units are certified according to the international quality system ISO 9001. They have also implemented the environmental management system ISO 14001.

#### **End of Life**

##### Recycling

Collection, sorting and material recovery are all part of the recycling process. Recycling is dependent on local waste handling infrastructure. Ease and recyclability of a product depends on the type of material, composition and sometimes colour. Check with local waste handling to get the correct information.

##### Energy Recovery

Incineration of mixed waste for energy recovery is a good end-use of products. Paper and plastic may burn well with low emissions.

Incineration facilities for energy recovery are dependent on local infrastructure. Incineration for energy recovery is a good alternative when material recovery is not available by recycling.

CPET products can be incinerated for energy recovery.

#### **Validity**

This is issued 2023-07-06. It is revised when there is a change in the manufacturing process, in the product or in legislation.